HENG Boon Kui

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Profile

Boon Kui is passionate with processes and methods in development of software systems. His current teaching interests in ISS include Solution/Software Architecture, Platform Engineering, Platform & Mobile Security, Analysis and Design, Design Patterns and Software Product Line. Prior to joining NUS-ISS, Boon Kui was in the telecommunication industry, playing various roles in software development and integration. He had experienced full lifecycles of various software development projects on telecommunication switching systems and their peripheral systems for narrowband, mobile and IP networks.

Educational Qualifications/Professional Certifications

- Master of Science (Computer Science), School of Computing, National University of Singapore, 2014.
- Master of Technology (Software Engineering), Institute of Systems Science, National University of Singapore, 2001. (Winner of Accenture Gold Medal and Book Prize, 2000-2001, for being the best student of Software Engineering. Best project team of Software Engineering for year 2000~2001.)
- Bachelor of Engineering (Electrical), First Class Honours, National University of Singapore, 1992.
- Certified ScrumMaster.
- TOGAF 8 Certified.

Academic and Professional Experience

- Associate – Technology Applications (Software Engineering Programme), National University of Singapore, Jan 2009 – Present.

- Project Specialist – Technology Applications (Object and Wireless Technologies), National University of Singapore, Sep 2005 – Dec 2008.
- Software Technical Manager, Fujitsu Singapore Pte. Ltd. (then Fujitsu Asia Pte. Ltd.), Jul 2000 – Aug 2005.
- Principal Software Engineer, Fujitsu Singapore Pte. Ltd., Jul 1998 – Jun 2000.
- Senior Engineer, Fujitsu Singapore Pte. Ltd., Oct 1996 – Jun 1998.
- Executive Engineer, Fujitsu Singapore Pte. Ltd., Oct 1994 – Sep 1996.
- Software Engineer, Fujitsu Singapore Pte. Ltd., May 1992 – Sep 1994.

Membership and Professional Activities

- Consultancy on STiX re-engineering, SISTIC, 2008.
- Provision of Advisory Services to Assess the Methodology & Architectural Requirements of a Pilot Project, Cargo Community Network, 2008~2009.
- ISS seminar "Innovations in Software Development", "Model-driven Development – a future "pain killer" of your development agonies?", 2009.
- ISS seminar "Make Agile Work – Practicality without Hype", "Current Adoption of Agile Practices in the IT Industry of Singapore", 2010.

Research Interests

- Model-driven Development

Selected Publications

Journal Articles

- (Doctoral symposium paper) Contextual Decision for Effective Transformation in Model-driven Development, The 12th International Conference on Software Reuse (ICSR 2011), 2011

What I Teach

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